

TO ARCHITECTS, BUILDERS, CONTRACTORS, &c

RIDGE AND FURROW ROOFS, GREENHOUSES, RAILWAY STATIONS, ENGINE SHEDS, MILLS, MARKET HALLS, AND PUBLIC BUILDINGS GENERALLY.

SPECIMENS TO BE KEPT AT THE EXHIBITION, in the extreme south-eastern end of the building adjoining the United States department.

It being universally admitted that Glass is Becoming a permanent character should not be less than one-eighth of an inch thick, weighing two pounds to the foot. MRS. JAMES HARTLEY and CO. have directed their attention to the manufacture of a description of

ROUGH PLATE GLASS THAT COMBINES SIZE AND STRENGTH WITH ECONOMY OF COST.

The PATENT ROUGH PLATE is manufactured in the U. S. of America. It is made of the best quality of steel, and is used in Greenhouses on arching covers, in the SUNFRANSPARENT and strength under is eminently suitable for the Glazing of Conservatories and Greenhouses. It is supplied in squares of all sizes, from 4 by 4 inches and upwards.

For further information apply to Messrs JAMES HARTLEY and CO., West Glen Works, Sunderland.
N.B.—The Patent Rough Plate is supplied at a much lower cost than the common Rough Plate.—May 1, 1881.

GLASS.—JAMES PHILLIPS and CO.'s
FOREIGN SHEET GLASS, of very superior quality, packed in cases containing ten feet, and of sizes varying from 24 in. by 36 in. by 12 in. at 80. per cent. Smaller sizes, from 12 in. upwards. Glass Tiles and Slates. Sashes primed and sash bottom frame of carriage, at 30. per foot.

R. B. DEWEY FOR HARTLEY'S PATENT BOUGH PLATE GLASS—116, High-street, W. without.

CHEAP ORNAMENTAL GLASS. I beg
to inform my friends and the public, that I have
placed a new EXHIB. and, owing to the healthy work
of my business, I am enabled to reduce my former prices
considerably. The prices are now from **SIX SHILLINGS PER FOOT**
borders from **SIXPENCE PER FOOT RUN**. A
variety of the choicest patterns always in stock. Embos-
sured work on the most modern terms. — **CHARLES**
W. J. F. W. street, Balker street, Portman square. — (Daily

E. and **W. H. JACKSON** beg to draw the attention of Builders and the Trade to the **250** of their **PATENT PLATE GLASS, BRITISH PLATE** and for glazing, of crystallized quality and finish. **EMERALD, OBSIDIAN, PINK, COLOURED, and ORNAMENTAL** in every variety, of the best manufacture, at the lowest prices, for houses and churches throughout the Kingdom. All applications for list of prices to be made at their warehouse, **215, N. STREET.**

SOHO GLASS WAREHOUSE, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852

THOMAS MILLINGTON begs to inform
BUILDERS and the Trade that he can supply
FOREIGN and ENGLISH WINDOW GLASS, Plain and
of every description. He has GLASS PLATE GLASS, White
Colours, Oils, Varnishes, Brushes, &c.; Milled and
Lead Pipe from 1/2 inch to 10 inches bore; Builders, We
Paints, Plasters and Brass Work of every description
the very best terms. Glass, Paints, Oils, Varnishes, Brushes
and Bed. Address, 65, Bishopsgate, London, E.C. 4.

See Advertisement, Saturday, June 28, 1907.

GLASS WATER PIPES.

COATHEE and CO. Green and Sheet Glass Bottlers, Natick, near Bristol, beg to inform Glassmerchants that they are supplying Glass Pipes with their joints 1/2 inches long, capable of sustaining very great pressure, to lengths from 1 to 7 feet, also leading to the Standard Increase. These pipes may be seen at all our offices with their various fittings and modes of joining. In fact, all references can be given of their great utility in all localities where they have been successfully employed. The advantage of glass pipes for conveying water is well known, and we have no doubt that you will find them a reliable and scientific method to regulate any further communication.

GLASS MARBLE COMPANY.—

WE LLAZE LATELY
 The Trade is respectfully informed that **PUBLISHED**
 THE USE of the **unusual ARTICLE** as a building mate-
 BE OBTAINED, at a moderate premium.
 The use of this material is well adapted for halls,
 rooms, ceilings, mantel-pieces, &c. either plain or
 numerous other applications. Both its internal and external
 surfaces will stand fire, and is not injured by acids, or
 bitum and is where, by need may ornament, it is
 hard to surpass the most expensive marbles, as it
 them in appearance, and is more durable than any
 (JANUARY, 1855). Its weight, a quarter of some common
 marble is employed, is not sufficient to require more
 of ordinary walls, and, if these be level, no other

by letter post paid or personally to the **MANAGER**, of this Office
25, John Street, Tottenham Court Road.

GREAT EXHIBITION, CLASS III.
ROYAL PORCELAIN WORKS
WORCESTER ESTABLISHED A.D. 1751
MESSRS. CHAMBERLAIN and CO.

Magistrates to her Majesty and the Royal family.
Beg to inform the Nobility, Gentry, and Public, that
and Show Rooms are open for the inspection of
from nine to five p.m.

Cards of admission to be had on application at the
main story, Dilettante, Worcester, and the principal
the town.

Worcester, June 1867

FOR WATERING GARDENS, DISTRIBUTING LIQUID
MANURE, BREWERY USE, &c.
PATENT VULCANISED INDIA
RUBBER HOSE-PIPES AND FLEXIBLE GAS
TUBING

JAMES LEWIS HASCOCK and **Leonora** and **Corvella** travel. These pups are well educated, courteous, happy-go-lucky, making them the perfect companions for a vacation. They are waterproof and fireproof and will remain in the water for 10 days without harm; they are, therefore, much more reliable than the other dogs. They are also highly suitable for fire-escape, and are found ready in swimming because, for everything but the water, they are the perfect companions. They are also very healthy. J. L. Hascock and his wife, Mrs. L. Hascock, will send you a brochure complete with names of all the dealers in the United States who sell the J. L. Hascock, Corvella, and Leonora dogs. Write immediately addressing "Waterproof Baking Soda" and send your name and address and a small photograph and we will send you a complete catalogue and show you the many uses of the J. L. Hascock, Corvella, and Leonora dogs.

CHEAP, LIGHT, AND DURABLE ROOFING.
CROGGON'S PATENT ASPHALTE ROOFING FELT has been extensively used and

LS. It is a two-membrane net. And it is portable, being packed in paper and not liable to damage by carriage. And it allows a series of half the number usually required. And it can be easily applied by any unskilled person. And from the lightness, weighing only about 1 lb. to the square of 100 feet, the cost of carriage is small. And it is made of cotton, or silk. It is a most effective preservative.

LEUCODERMIS PASTE, for damp walls and for damp skins, under carpets and floor cloths. Price 6s. 6d. per Square Foot.

CHAMBERLAIN'S AND CO.'S PATENT FELTED BREATHING, for Covering Ships' Bottoms, &c.

DRY HAIR FELT, for Covering Steam Boilers, Pipes, &c., preventing the radiation of heat, saving 10 per cent of Fuel, and diminishing Soot.

Samples, instructions, and full information, on application, to **CHAMBERLAIN AND CO., 1, DOWGATE-HILL, LONDON.**

TO ARCHITECTS, BUILDERS, &c.
ALL descriptions of **TERRA COTTA**,
CEMENT, and PLASTER CASTINGS, executed in a
 first-rate manner, on reasonable terms, by **J. HERBERT and**
SON, Modellers, &c. 45, Parker-street, Drury-lane. A splendid
 assortment of Corinthian, Ionic, and other Capitals; Composite
 Flowers, Balustrades, Trusses, &c.; Miscellaneous, and other Chimney
 Moulds.

ARCHITECTS or BUILDERS requiring ENRICHMENTS in COMPOSITION, CEMENT, or PLASTER, cannot have better advice than that proffered by **WM. HARTY, jun.** of 18, CROMWELL-STREET, FINSBURY, who will be happy to give Estimates of the work of any magnitude, at a reduced scale of charges. Architects' designs modelled with precision, and generally beautifully carried out. Established in the family three-fourths of a century.

GRAVES'S PORTLAND, ROMAN, and LIAS CEMENTS—The above possess every cementitious property, is an excellent degree, and are unequalled for all hydraulic purposes.

GRAVES'S GROUND BLUE LIAS LIME.
CHARLES NICHOLSON, Agent.
4, North Street, Dublin.

FRENCH PLASTER mixed with sand forms a hard skin for internal walls, which dries rapidly and may be used at all seasons of time and hour, its brilliant increase of cost. It is stronger for gauged work than English plaster, and is cheaper in its first cost. Importers and Manufacturers, **J. N. WILKIE and SONS**, 101 Bank-street, Westminster; 11, South Wharf-road, Paddington; and Earl-street, Riscot-tram.

ATKINSON'S CEMENT, made in London
 From the Works supplied from the Welgrave estate, is well known for the quick setting properties and fine natural colour which have distinguished it for many years as the best Cement for building and all ornamental purposes.—Manufacturers, J. B. WHITE and SONS, 8, Millbank Street, Westminster; 11, South Wharf-road, Paddington; and Earl Street, Blackfriars.

K EENE'S and PARIAN CEMENTS.

For internal stucco are employed very advantageously in place of wood for skirtings, architraves, and panel mouldings, and also for the decoration of ceilings, walls, and cornices. The PAIRIAN Cement alone, by its being painted or papered upon within a few hours of its application, and thus render it an important substitute for common plastering in those cases where expedition and tenacity of finish are essential.—J. B. WHITE and SONS, Portland Cement Works, Portland, Dorset; and J. H. KEELE, Puddington; and EARL STREET, Manchester. Patented of KEENE'S Cement, Licensors of PAIRIAN Cement.

J. B. WHITE and SONS advise purchasers of **PORTLAND CEMENT** to ascertain if an article now selling under that name at a reduced price be the real Portland Cement or a spurious imitation of it in the shape of a **Lean Lime**.

PORTLAND CEMENT, as manufactured by J. B. WHITE and SONS, possesses all the properties of the best Portland Cement, but has the advantage over that material of a body of hydraulic cement, and is therefore adapted for use in concrete or in any form to damp situations, and requires no coloring. Employed as an hydraulic mortar for brickwork, it carries four to five measures of sand to one of cement, and is proved by trial to become harder and stronger in these proportions than the best hydraulic mortar. The superior concrete made with this cement, combined with its eminently hydraulic properties, is not only the best material for building on and around water, but also the lining of reservoirs, cisterns, and tanks, and for all other purposes a better strength and a perfect resistance to water action.

minister; 11, South Wharf-road, Paddington; and Earl-street Blackfriars; and 20, Rind-street, Liverpool.

PORTLAND CEMENT, in Casks of Four Imperial Hhds. QUANTITY NOT WEIGHT. BEING THE STANDARD.—**CHAR. FRANCIS and SONS**, Cement Works, Nine Elms, London.

PORTLAND CEMENT.—CHARLES

RICHARDSON has the greatest confidence in introducing to the trade the above superior **CEMENT**, bearing uniform color and quality, a desideratum never before attained in Portland Cement. It possesses extraordinary cementitious qualities, retains the action of frost and heat, and is more durable than any other Cement, does not vegetable, turn green, or decay, combined with which it is most beneficially adapted for use as a base for concrete and for the construction of bridges, piers, and aqueducts. Cement can be used in the most extensive manner. Portland Cement can be used, and contrary to the statements put forth by those who have hitherto had the monopoly manufactured by the **SHARPS** Co., of its Works, near the **Alver Ave.**, and must be the pride of the Kingdom port or rail, at a reduced price to the

[illegible]

PERMANENT STUCCO WASH
WITHOUT MIX OR OTHER CORRUPTIBLE

DISCOUNT
As used by the Government, Hydrus Park Garage
JOHNS and CO. have a special low price on plant improvement
is the manufacture of this very useful material, confidently and
to the notice of the Trade and the Public generally, as a means
every advantage over the common Lime and Water class of
JOHNS or BRICK. It is made in a Colour, but can be
DOES NOT WASH OFF
twenty-four hours, and being a non-absorbent, it is made
adapted for Building Stations, Union Workhouses, Barracks,
Hospitals, Prisons, &c. One coat will cover the square yard. It is
strong, good for years, and MAY BE EXPEDITED WITH

JOHNSON & CO.'S STUCCO CEMENT.—This cement, from the great reduction in price, and the suitability for interior as well as external work, places it above all other materials of the kind; it has no elastic qualities: may be painted or repainted with any color; may be used on any surface, and is as hard as stone, and may be decorated with a brush and water. The merits of the **PAINT** are well known for its application to stucco work of all kinds, and external work generally. Numerous testimonials, prospectuses, and every information can be obtained, on application to the Sole Agent, **PHILIP HARRIS & CO.**, 10, Abchurch Lane, London, E.C. 4. **Upper Adams Street, AUSTIN**—Reference to a wholesale dealer.

PARIAN CEMENT for internal use, to be
PAINTED IN A FEW HOURS, AND PERMANENT
WITHIN A COUPLE OF DAYS—CHARLES FRANCIS &
SONS, Patents, Nine Elms, London.

ROMAN and other CEMENTS.—MARRAS

Manufactured by J. M. MARRASFIELD, successor to the late J. MARRASFIELD, since 1780, at the works of the FARRERMAN CEMENT Co., where he has been for upwards of 50 years, has been extensively used in most of the public and private buildings and other works in this country and throughout the world, and has more recently been used in the construction of the London Dock, the Thames Tunnel, the Winter Palace at Petersburg, the British Museum, the York Minster, the London Exchange, the Nelson Column, and the New House of Parliament. It is the most durable and strongest of all the hydraulic cements known; and, when used in concrete, it will resist the action of heat and frost, and prevent the material from cracking. It is the only hydraulic cement material, and is **ESPECIALLY ASKED FOR SUCH WORK AS**

MORTAR MADE OF ORDINARY LIME.

Tarred, or Hydraulic Lime, for setting masonry where slow induration is important, and for hydraulic works, such as locks, bridges, and harbors, for its tenacity and hydraulic properties, and with which the most solid works in Lancashire have been executed. Hydraulic Mortar is also used for the construction of the great works of the world. Also Martin's Cement, Kemps's Cement, Portland Cement, Roman Plaster of Paris, prepared from the purest gypsum, and any service of America required. Chimney-pots, Flues, Fire-bricks, and all other articles made of cement, supplied at the lowest prices. Road, Lambeth, and Putney-bridge-roads.

ROMAN CEMENT and PLASTER
PARIS WORKS
THOM, GREEN and Co.

Manufacturers of ROMAN CEMENT, PLASTER & PAINT
and GROND BLUE LIAS LIME.
TUSCANY WARE, Hargest's Cement, Kidderland-road LONDON
DEPUTS-QUEEN'S WARE, Great Cambridge-street

RINGM WHARF, New Wharf-road, Hestle-bray
 No. 1 WHARF, PADDINGTON
 N.E. LATHS, TILES, PAVING BRICKS, PLASTERED
 HAIN, ARTIFICIAL STONE, POTTERY WARE, &c. &c

LIME WORKS, WOULDHAM, near ROCHFESTER

THOMAS YOUNG and CO beg to inform builders, Surveyors, and others, that they have purchased the LINE WORKS WOULDMAN, on the MEDWAY, of Mr. J. W. LINDSAY, and are now prepared to supply GREY CHALK, and FLINT LIME upon very reasonable terms, either by the barrow, from their Works, or in small quantities from their Office, TUCANT WHARF, REGENT CANAL, BISHOPSLAND ROAD, LONDON: QUEEN'S WHARF, Great Cambridge Road, HACKNEY-ROAD; KING'S WHARF, NEW WHARF ROAD, BATTLE RIDGE.

GREY-STONE LIME.—HALL, Brothers
Newham Lime Works, near Beigate, beg to state
that they have a large stock of their best Grey Stone Lime on hand.

[illegible]

GUTTA PERCHA TUBING.—May be used for steam, water, and air, and is the most valuable for conveying water and chemicals. It is perfect for liquid measure, drain, and soil pipes. Being a conductor, it is not affected by the frost of winter or drought of summer, like metal or leather. It is strongest in water, and small (half) inch diameter or nothing having received a premium at the square inch, without bursting. The smaller size may be from one foot, and the larger is 20 feet length. The 3-inch size may be made. As a conductor of sound it is most valuable. See our catalogue in line of bells. Every variety of article made and sold by the GUTTA PERCHA COMPANY, Portland, Maine. Write for catalogue.